

ACC NR: AP7000469	SOURCE CODE: UR/0207/66/000/00	2/0063/007
1966, pp. 63-71 TOPIC TAGS: Reynolds number, hydr Translation: The effect of the ga of bubbles on the rate of their ri lindrical column is investigated. tageous from the energy standpoint homogeneous and isotropic distributheoretical description of the mot quid is necessary for study of the repeatedly studied in the case of of the so-called model of cells. for description of the motion of a (Re 300). It was assumed that at at the center of an imaginary sphe equal to the mean distance between	chnicheskoy Fiziki, Moscow, No. 2, Mar-Approximations and the shape occupied by a system and unlimited medium and a vertical Deformations of the system which are addraged are considered, with the assumption of ation of the bubbles in the system. A cion of the system of gas bubbles in the bubbling processes. This problem has	cy- van- ii- peen pasis ed s ated n is
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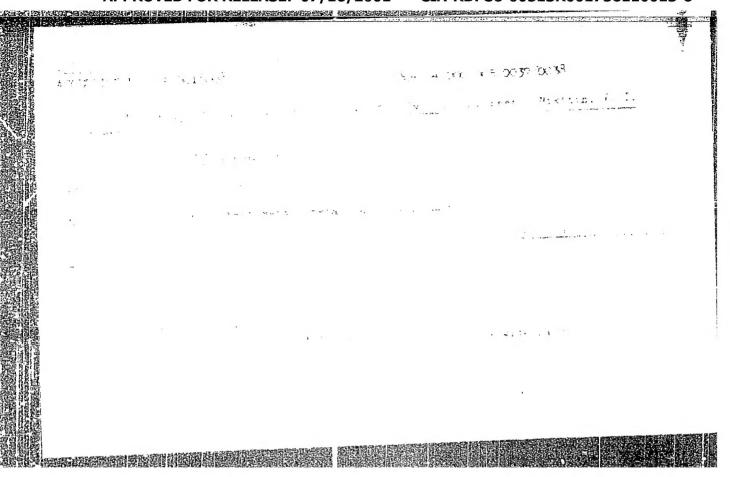
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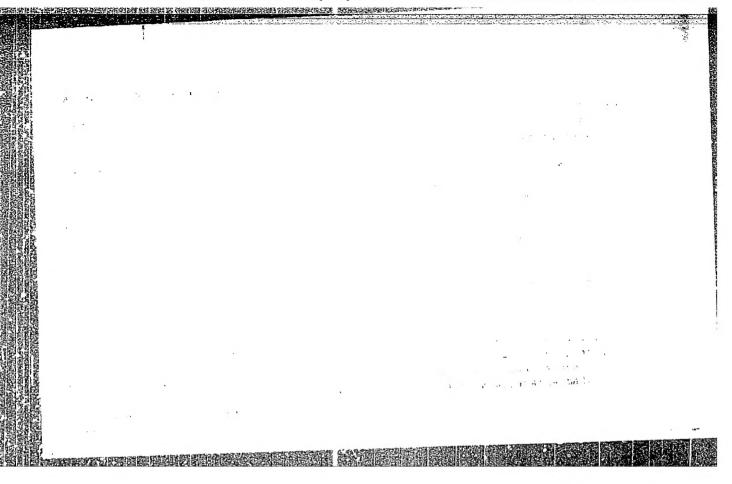
moderate dimension tatively from simi apparently, indica case of low gas co	y and isotropicity of the sin any way. In this work results are obtains with a low gas content. It results obtained on the ates that the cells model in the cells mod	ined for the case of bubb These results differ eve e basis of the cells mode s unsatisfactory, at leas	of the les of n quali- l. This, t in the
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YUDITSKIY, A.I., inzh.; TOIMACHEV, Ye.P., inzh.; NIKITIN, V.I., inzh.

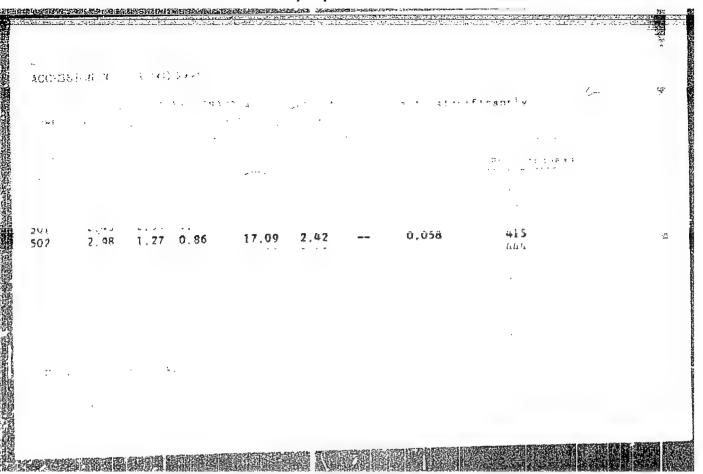
New wear-resistant IChKnl7N3G3 alloy. Mashinostroenie no.52
37-38 S-0 '64 (MIRA 18:2)

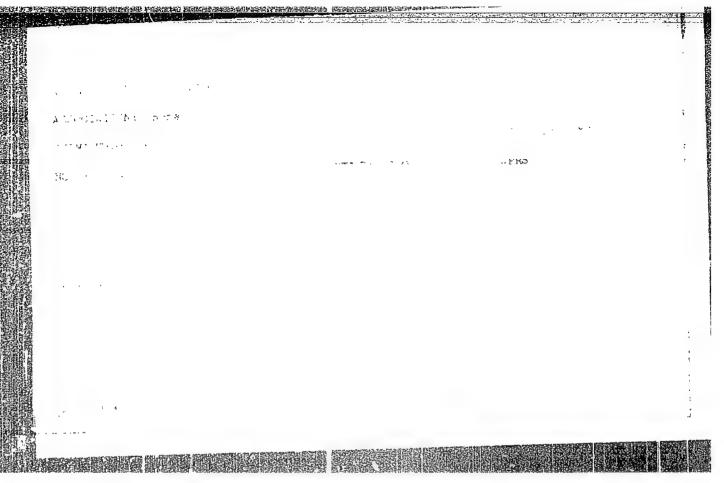
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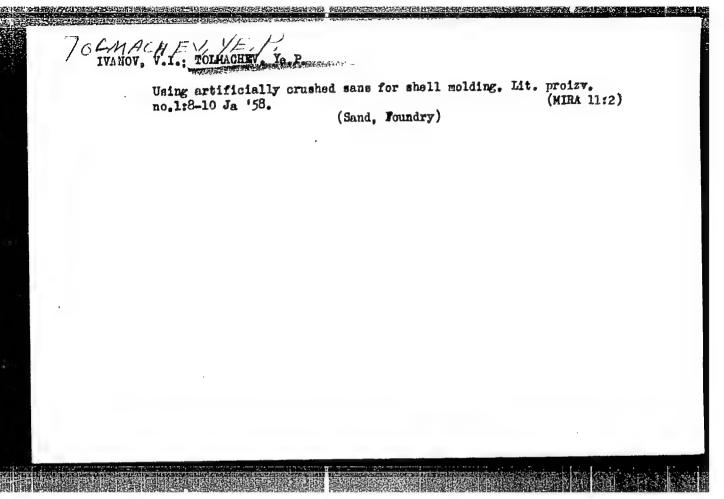
TOLMACHEV, Ye. P.

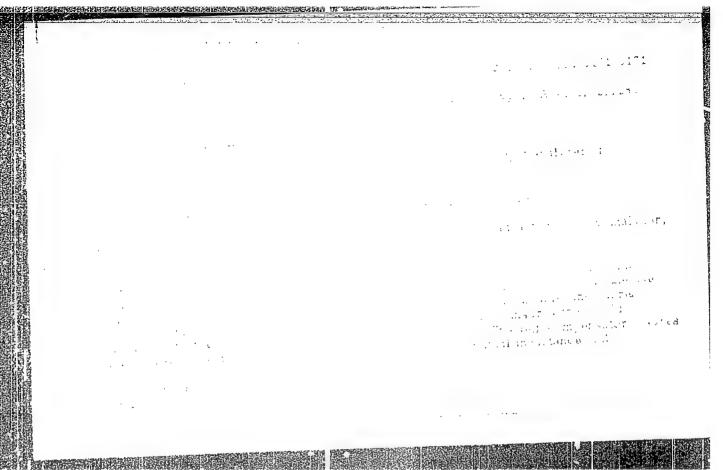
"On Experience with Molding Sand Milled ina Special Vibration Mill, Which Solves the Problem of Obtaining Castings with a Clean Surface not only with Shell Molds but also with Conventional Molding Methods."

report presented at Scientific-Technical Session on Progressive Technology of Casting Molds, organized by the NTOMAShPROM of the Khar'kov Oblast', in Khar'kov, 14-16 Nov 1957.

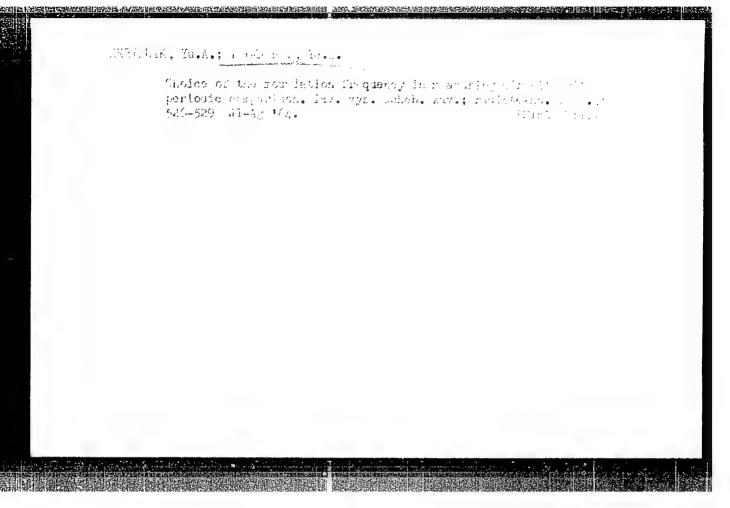
Liteynoye Proizvodstvo, 1958, No 4, pp.28-30

Voroabilor Diesel - Tocomotive Plant





L 1697-66 EWI(1)/EWA(h) S/0274/65/000/001/4083/4083 ACCESSION ER: ARSOCOOO 621.317.757.213 SOURCE: Ref. zh. Hadiotekhnika 1 elektrosvyazi. Svodnyy tom, Abs. 14504 AUTHOR: Toleschev, Ye. S., Tus , Yu. M. TITLE: Hew Mathed for increasing the sensitivity of commercial-frequency amplitude analyzers CITED SOURCE: Tr. Kiyevsk. politekhn. in-ta, v. 42, 1963, 187-190 TOPIC TAGS: harmonic analyzer TRANSLATION: The error caused by higher-order 1-36 harmonics is equal to the error caused by 30, 15, or 10% of third-, fifth-, or seventh-harmonic, respectively As higher harmonics are difficult to measure, a circuit is suggested which auguents their content in proportion to their frequency. The circuit includes a deep-negative-feedback amplifier with an adjustable working current. An inductance coil in the feedback circuit ensures n-fold augmentation of the amplitude of the n-th harmonic. The measurement is nade by a conventional heterodyne analyzer which receives the signal from the coil secondary. Simultaneously, the entire signal is also amplified. In a practical hookup, the 10-th harmonic amplitude was increased by 31.4 times, the 25-th, by 80 times. SUB CODE: DO



OGORELIN, M.A., inzh.; ORNATSKIY, P.P., kand.tekhn.nauk, dotsent; TOLMACHEV, Ye.S., inzh.

Measurement of electrical magnitudes in the presence of nonsinusoidal currents and voltages. Izv. vys. ucheb. zav.; energ. 5 no.7:25-30 Jl '62. (MIRA 15:7)

1. Zavod "Tochelektropribor" (for Ogorelin). 2. Kiyevskiy ordena Lenina politekhnicheskiy institut (for Ornatskiy, Tolmachev). (Electric measurements)

TOIMAGHEV, Yu., ingh.-podpolkovnik; MOROZ, N., ingh.-podpolkovnik.

Hew apparatus for training radiotelegraph operators. Voen. sviaz.

(MIRA 11:2)

16 no.1:11-15 Ja '5.

(Radio operators.-Study and teaching)

MOROZ, Nikolay Andreyevich; TOLMACHEV, Yuriy Aleksandrovich; KON'KOV, V.I., otv. red.; SVERDLOVA, I.S., red.; SHEFER, G.I., tekhn. red.

[Repair of telegraph apparatus and automated attachments] Remont telegrafnykh apparatov i pristavok avtomatizatsii. Moskva, Gos. izd-vo lit-ry po voprosem sviazi i radio, 1961. 239 p. (MIRA 14:11) (Telegraph—Equipment and supplies)

ACC NR: AP7004146

SOURCE CODE: UR/0051/67/022/001/0162/0165

AUTEOR: Tolmachev, Yu. A.

ORG: none

TITLE: Choice of a method of estimating the cross section of stepwise excitation

SOURCE: Optika i spektroskopiya, v. 22, no. 1, 1967, 162-165

TOPIC TWEST excitation erose section, excited state, plasma resonance, transition probability, forbidden transition, neon, optic transition

ABSTRACT: It is shown that some of the presently available formulas, derived on the hadis of the methods of classical physics, can be used to estimate the cross sections for stepwise excitation of the high-energy states of atoms in a plasma at medium pressures. To avoid the ambiguity resulting from the fact that such estimates may yield under certain conditions identical estimates for both allowed and forbidden transitions, the author examines the results of averaging several approximations of the cross sections over a Maxwellian distribution and shows that in those cases when a given level can occur simultaneously from several lower levels it is possible to neglice the stepwise excitation corresponding to the forbidden transitions and thus avoid the ambiguity. The results of calculations by the Bethe and Thomson formulas are then compared with the experimental values of the stepwise excitation for the transitions

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UDC: 539.186.1

ACC NR: AP7004146

2p<sup>5</sup>3sX + 2p<sup>5</sup>3pY in neon and the reasons for various discrepancies between them are analyzed. It is concluded that at sufficiently high electron temperatures the stepwise excitation of allowed transitions has much higher efficiency than that of forbidden transitions, and that in those cases when the populations of the lower levels do not differ too much it is sufficient to take only the allowed transitions into account, using Bethe's formula for the cross-section calculation. Orig art. has: 2 figures, 10 formulas, and 2 tables.

SUB CODE: 20/ SUBM DATE: 13May61/ ORIG REF: 005/ OTH REF: 003

Card 2/2

JULAL LJECGA 4. 00257-67 SOURCE CODE: UR/0051/66/021/003/0397/0398 AP6031965 ACC NR AUTHOR: Tolmachev, Yu. A. ORG: none TITIE: Elementary processes in direct-current gas discharge plasma in helium SOURCE: Optika i spektroskopiya, v. 21, no. 3, 1966, 397-398 TOPIC TAGS: gas discharge plasma, helium plasma, excited state, electron energy level ABSTRACT: In comparing measurements of the occupancies of excited atomic states in a gas discharge plasma with calculated values, it is usually assumed that the atoms are excited from the ground level by electron impact, and that the destruction of the excited levels is due to spontaneous radiation. It is also assumed that the distribution function of the electrons is Maxwellian. At high pressures, it becomes necessary to consider stepwise excitation, whose role rapidly increases because of the increased occupancy of the lower excited levels and because the distribution function becomes poorer in fast electrons than the Maxwellian function. If it is assumed that the destruction of the upper levels occurs mostly during collisions with atoms in the unexcited state and the occupation proceeds in stepwise fashion, the balance equation assumes the form  $N_i n_s \langle \sigma v \rangle_{in} = R p^k N_n,$ where p is the gas pressure, R is the reaction rate constant, and the exponent k is

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UDC: 533.9:546.291

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ACC NRI AP6031965

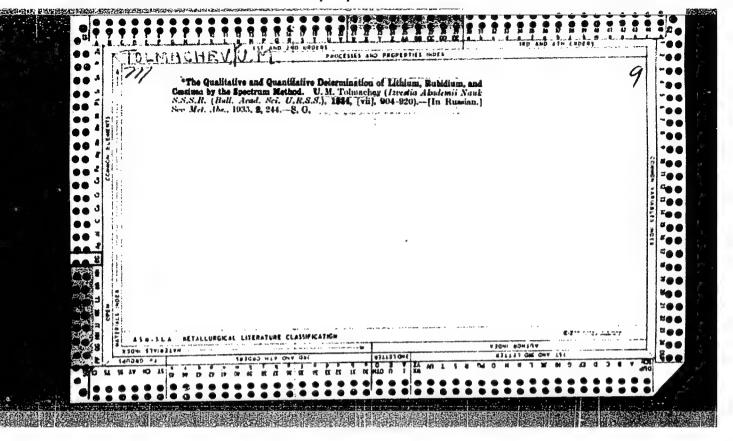
equal to unity in double collisons and two in triple collisions. The pressure dependence of R supports the assumption that the destruction occurs during triple collisions. Then, using the formula

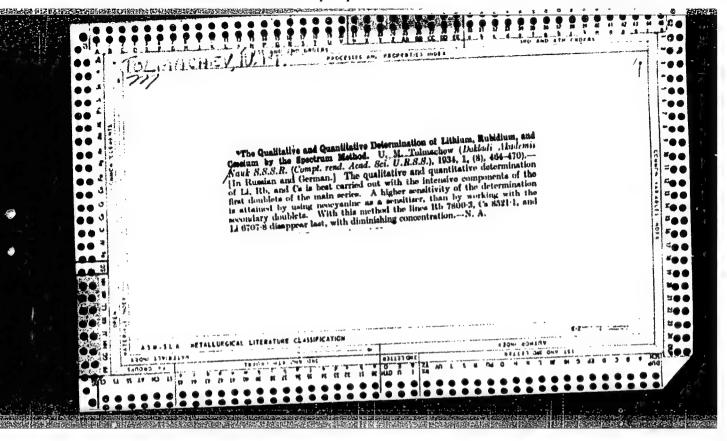
 $\Delta N = N_n N_0^2 \frac{4\pi^2}{3} \left(\frac{3kT}{\pi m}\right)^{1/3} r_n^2$ 

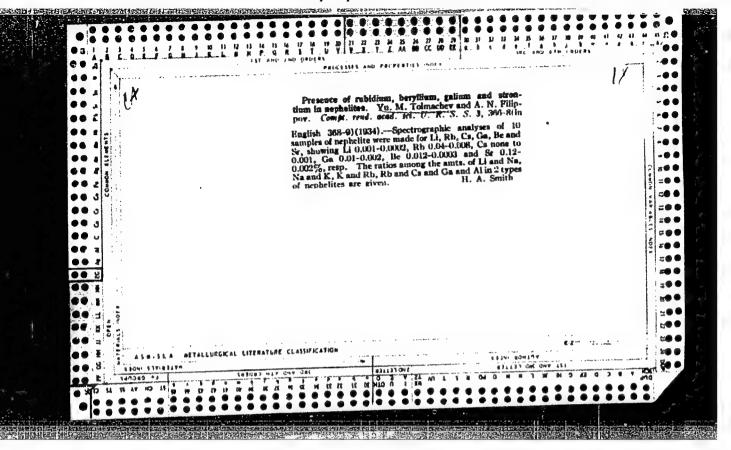
for the frequency of triple collisions and assuming that the radius of the interaction sphere substantially exceeds the size of the unexcited atom, one can calculate  $r_n$ . Calculations show that when n > 6,  $r_n \approx 3 \times 10^{-8}$  n cm. The existence of this dependence excellents the observed relationship  $N_n n^5 = \text{const.}$  The data obtained once again point to the existence of molecular or other complex processes in inert-gas plasmas even at medium pressures. Author thanks S. E. Frish and O. P. Bochkova for their attention to this work and for discussing its results. Orig. art. has: 2 figures and 8 formulas.

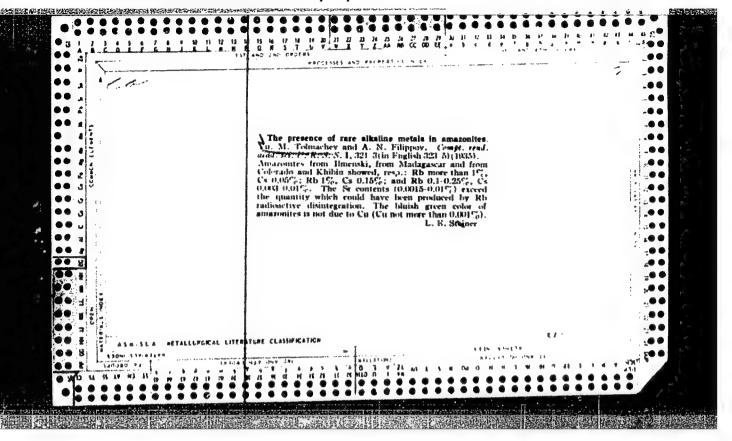
SUB CODE: 20/ SUBM DATE: 14Mar66/ ORIG REF:

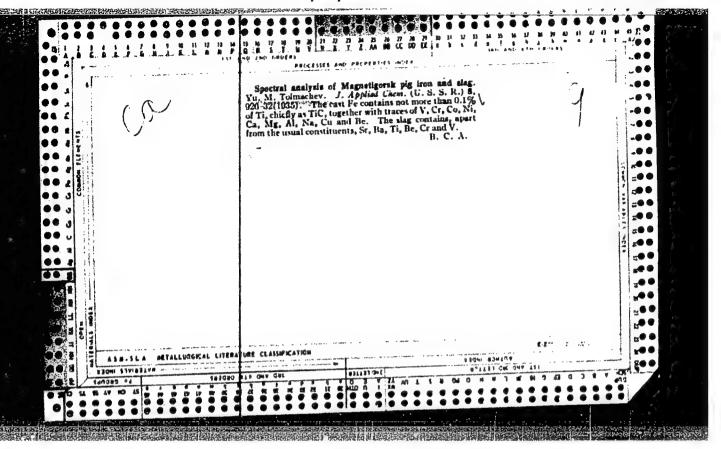
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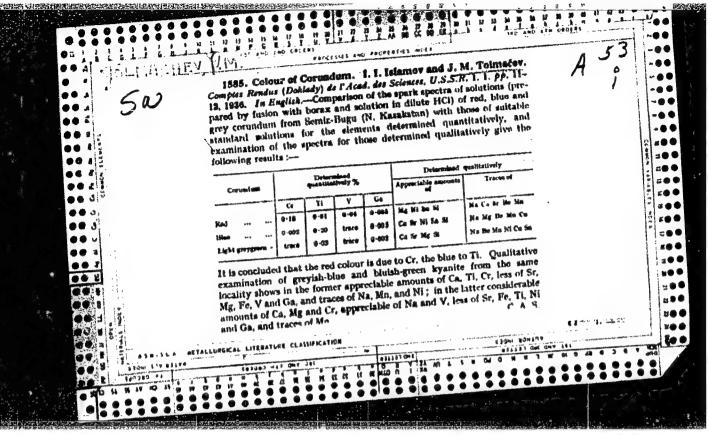


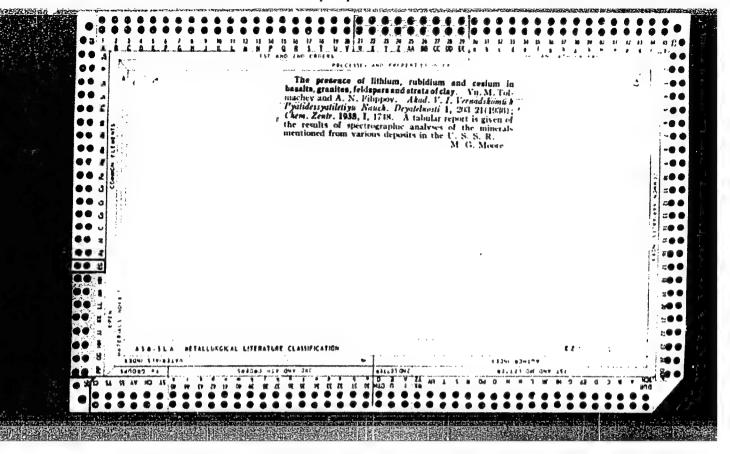


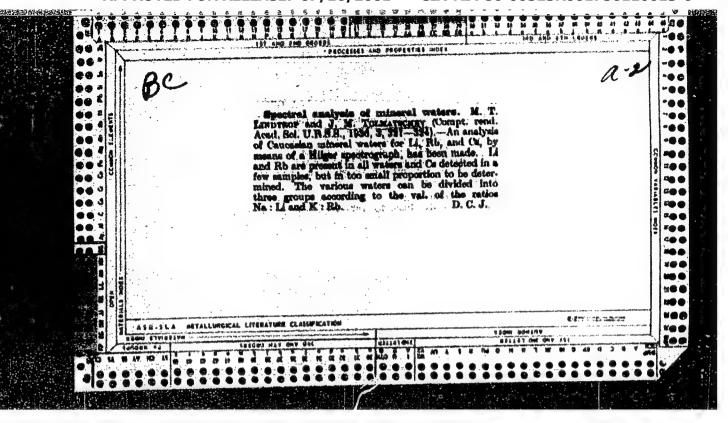


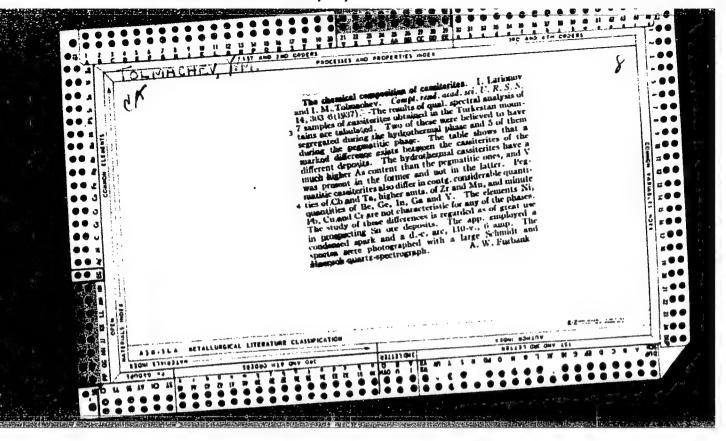


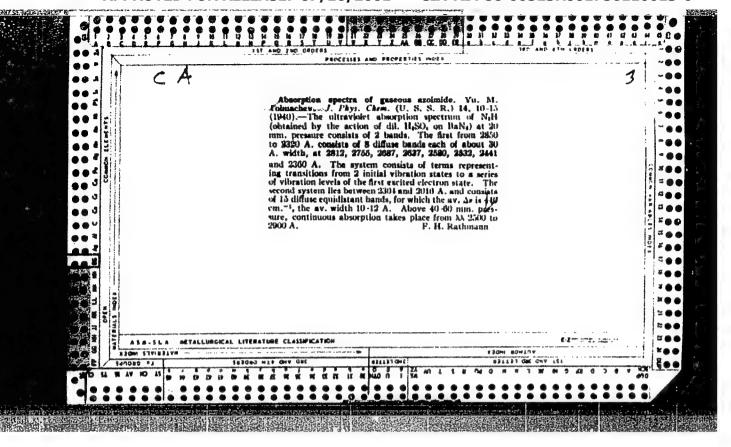


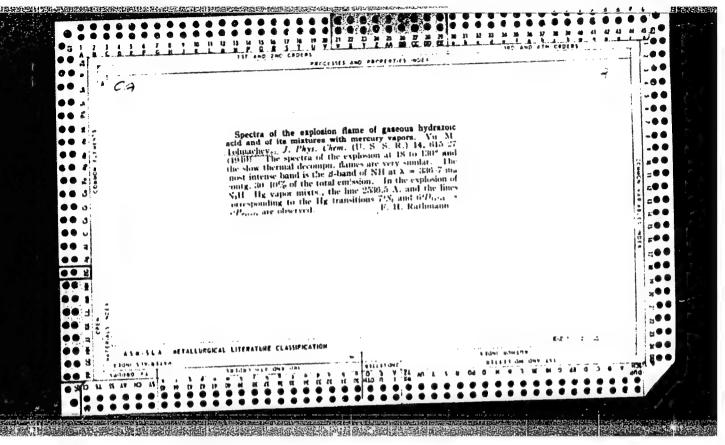


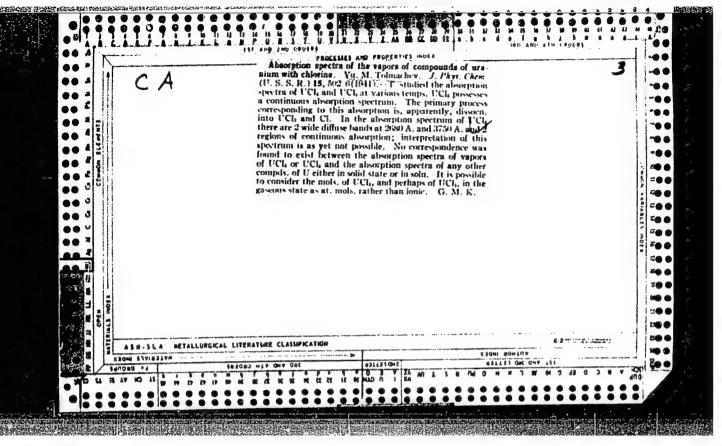


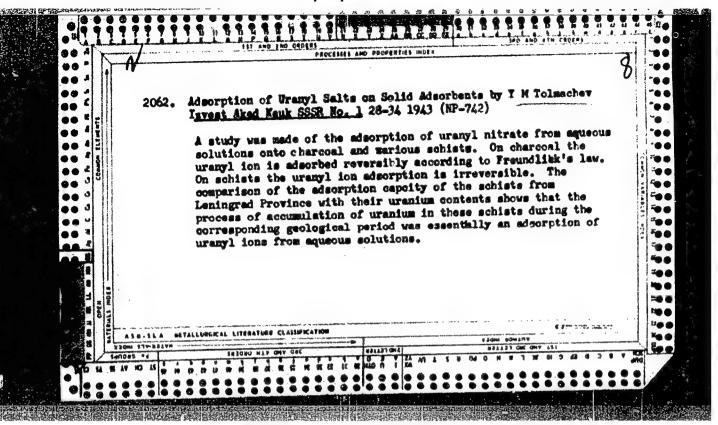


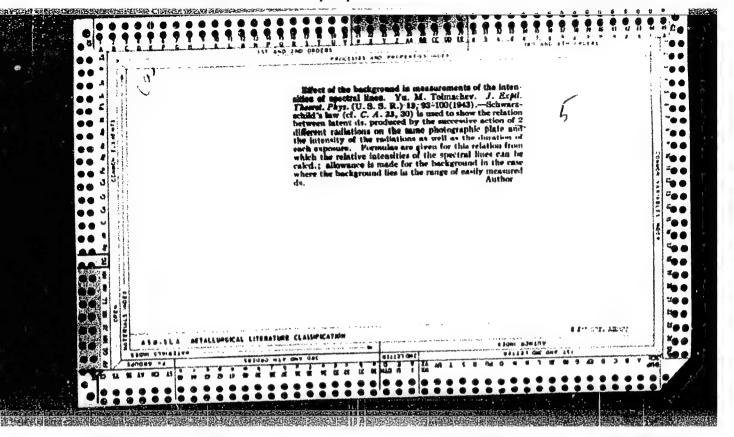


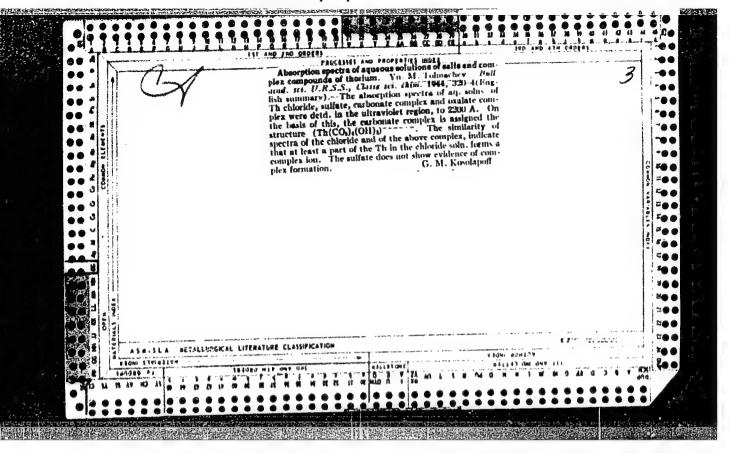


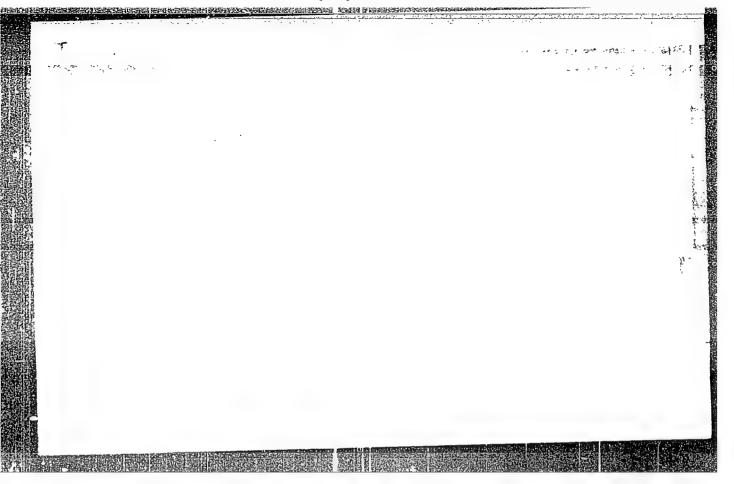


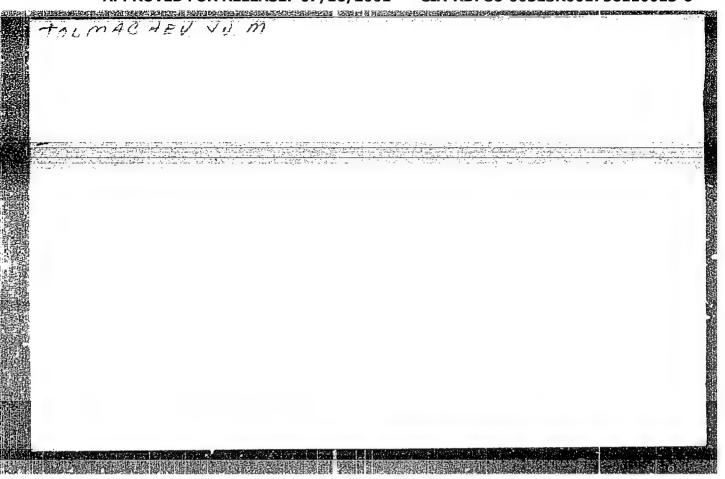


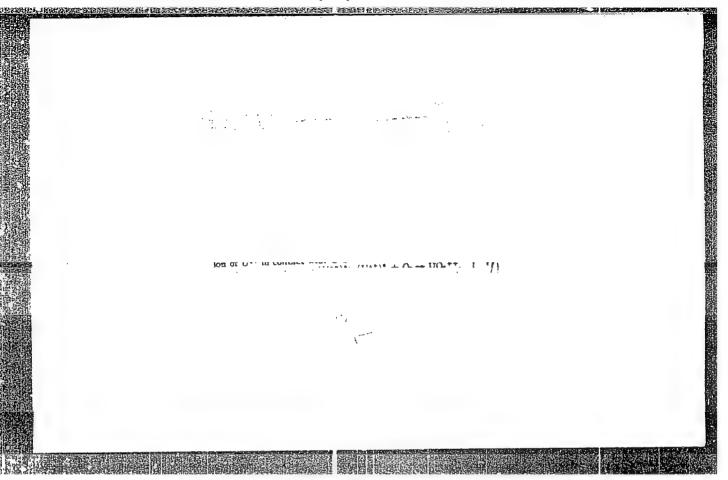


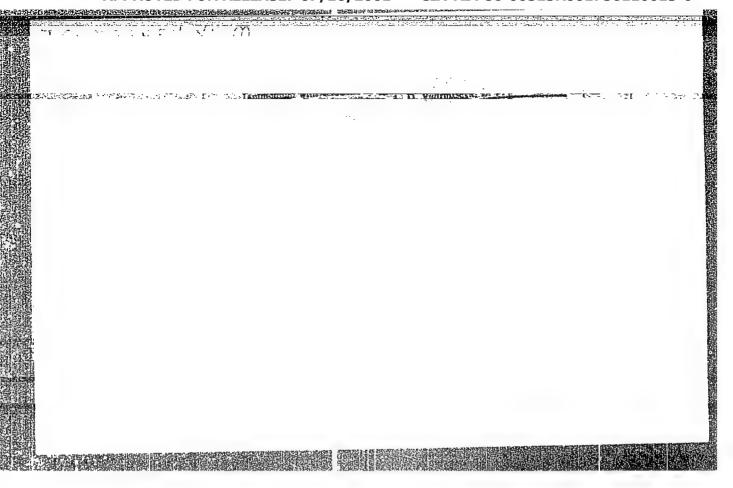


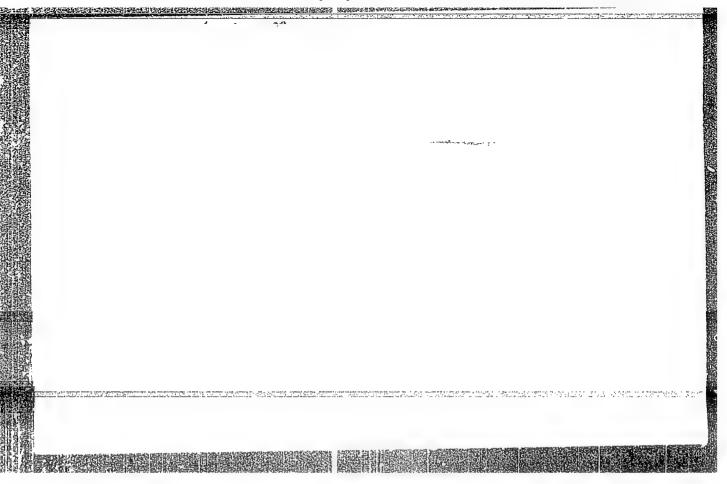


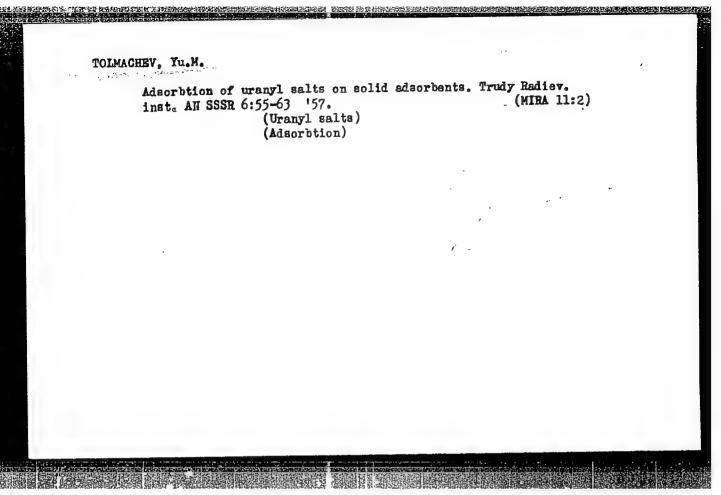












15-1957-10-14148

Referativnyy zhurnal, Geologiya, 1957, Nr 10, Translation from:

p 125

Moskal'kova, E. A., Tolmachev, Yu. M. AUTHORS:

The Separation of Scandium From the Rare Earths and TITLE:

Zirconium (Otdeleniye skandiya ot redkozemel'nykh ele-

mentov i tsirkoniya)

Tr. Radiyev. in-ta. AN SSSR, 1957, vol 7, pp 141-143 PERIODICAL:

A method has been developed for the separation of Sc ABSTRACT:

from the rare-earth elements and from Zr, based on the high solubility of (NH<sub>4</sub>)<sub>3</sub>ScF<sub>6</sub> and the insolubility of fluorides of the rare earths in a solution of ammonium fluoride. Zr is subsequently separated as a phosphate. The following is a resume of the method. To a solution containing rare earths, Zr, and Sc, a five-fold multiple of dry NH<sub>4</sub>F is added (depending on the sum of the elements). The resulting acid is neutralized with ammonia until it has a slight odor. The solution with the pre-

cipitated sediments is heated to 60°. The sediment is

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The Separation of Scandium From the Rare Earths and Zirconium

centrifuged and washed in a 5% solution of ammonium fluoride. The washing water is added to the filtrate and is treated in a platinum with a 30% solution of KOH. The solution with the alkali is then heated to boiling. Sc and Zr, having been precipitated as hydrates, are filtered off, washed in hot water, and dissolved in a 15% solution of H<sub>2</sub>SO<sub>4</sub>. Freshly prepared doubly decomposing ammonium phosphate is added to the resulting solution in order to precipitate the Zr. Sc remains in the filtrate, from which it is precipitated as a hydrate by alkali. The Sc (OH; 3 sediment is filtered off, carefully washed from the PO<sub>4</sub>-, and dissolved in a small quantity of 2 normal HCl (no more than is necessary to dissolve it). It is then diluted with water to such a volume that the acid concentration is 0.3 normal; and the Sc is precipitated from the solution by oxalic acid. The Sc oxalate thus obtained is centrifuged, washed in a O.1% solution of oxalic acid, and roasted to form an oxide.

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K. N. Ryabicheva

sov/89-6-5-4/33

21(8) AUTHÓRS: Shiryayeva, L. V., Tolmachev, Yu. M.

TITLE:

On the Chemical Behavior of Mo<sup>99</sup> Which Is Formed During the Irradiation of Uranium Oxides by Slow Neutrons (O khimicheskom

povedenii Ma<sup>99</sup>, obrazuyushchegosya pri obluchenii okislov

urana medlennymi neytronami)

PERIODICAL:

Atomnaya energiya, 1959, Vol 6, Nr 5, pp 528-532 (USSE)

ABSTRACT:

 ${\rm U_3^08^-}$  and  ${\rm U_{02}^-}$  preparations are annealed in an argon current and in a vacuum after irradiation, and the extraction yields are measured in dependence on the annealing temperature. The results obtained are shown by a graph. In addition, volatilization of Mo<sup>99</sup> from preparations annealed at high temperatures was measured. The results obtained are tabulated. The methods of producing the initial preparations and the method of leaching Mo<sup>99</sup> from the said preparations are described by refering ence 1. Annealing in a vacuum is described separately. The following conclusions may be drawn from the results obtained:

1) The extraction of Mo<sup>99</sup> from irradiated U<sub>2</sub>0<sub>8</sub>- and U0<sub>2</sub>-preparations increases with increasing annealing temperature in the vacuum in the same manner as in the argon-, hydrogen-,

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On the Chemical Behavior of Mo<sup>99</sup> Which Is Formed During the Irradiation

and oxygen current. From UO<sub>2</sub> annealed in an oxygen current at 1200°C it was possible to extract 97% of Mo<sup>99</sup>. In the case of U<sub>3</sub>O<sub>8</sub>, which was annealed at 1200°C in a vacuum, only 71% Mo<sup>99</sup> could be extracted. 2) In U<sub>3</sub>O<sub>8</sub>-UO<sub>2</sub>-preparations annealed in an oxygen current and in a vacuum, volatilization of Mo<sup>99</sup> begins at 900°C. With UO<sub>2</sub> annealed in an oxygen current at 1000 - 1200°C, an increased volatilization of Mo<sup>99</sup> was found.
3) It was possible by extrapolation to determine siso the dependence of the volatilization of Mo<sup>99</sup> on the annealing time. If U<sub>3</sub>O<sub>8</sub> is annealed in a vacuum for 5 hours, the volatilization of Mo<sup>99</sup> is 100%, whereas in the case of UO<sub>2</sub> an annealing time of 7 hours is necessary. 4) On the basis of experimental data it was possible to plot the curves: logarithm of the percentage of extraction against 1/T. It was further possible to calculate the activation energy for the extraction of the Mo<sup>99</sup> from uranium oxides. There are 3 figures, 1 table, and 14 references, 2 of which are Soviet.

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TOLMACHEV, YU.M.

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# PHASE I BOOK EXPLOITATION

SOV/4853

Akademiya nauk SSSR. Radiyevyy institut.

Radiokhimicheskiy analiz produktov deleniya; sbornik statey (Radiochemical Analysis of Fission Products; Collection of Articles) Moscow, Izdatel'stvo Akademii nauk SSSR, 1960. 134 p. Errata slip inserted. 6,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Radiyevyy institut imeni V. G. Khlopina.

Ed.: Yu. M. Tolmachev, Prof., Doctor of Chemical Sciences

PURPOSE: This collection of articles is intended for persons concerned with the radiochemical analysis of radioactive isotopes.

COVERAGE: The series of studies contained in this collection were carried out at the Radiyevyy institut imeni V. G. Khlopina AN SSSR (Radium Institute imeni V. G. Khlopin AS USSR). They are

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Radiochemical Analysis (Cont.)

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concerned with the determination of fission yields during the splitting of U<sup>235</sup>, U<sup>238</sup>, and Pu<sup>239</sup> into 14. Mev neutrons and fission neutrons. Individual studies deal with radiochemical methods of separation and purification of the following fission products: Sr<sup>89</sup>, Sr<sup>90</sup>, Zr<sup>95</sup>, Zr<sup>97</sup>, Mo<sup>99</sup>, Mo<sup>101</sup>, Mo<sup>102</sup>, Ru<sup>103</sup>, Ru<sup>106</sup>, Pd<sup>112</sup>, Ag<sup>111</sup>, Cd<sup>115</sup>, Sb<sup>125</sup>, Te<sup>132</sup>, J<sup>132</sup>, Ba<sup>139</sup>, Ba<sup>140</sup>, and La<sup>140</sup>, as well as of the following isotopes: Ca<sup>45</sup>, Co<sup>55</sup>, and La<sup>140</sup>, Au<sup>198</sup>, Tl<sup>202</sup>, Tl<sup>204</sup>, Po<sup>210</sup>, and U<sup>237</sup>. The separation and quantitative determination of most isotopes were based on the isotope dilution method. The chemical operations for each of the isotopes were carried out at time intervals that depended on the radioactive transformation of the isotopes. No personalities are mentioned. References accompany individual articles.

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G		JA/dwm/os 3/22/61

24817 s/081/61/000/011/009/040 B105/B203

21. 420° AUTHORS:

Moskal'kova, E. A., Popov, D. K., Tolmachev, Yu. M.

TITLE:

Separation and purification of radioactive zirconium

radioisotopes

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 11, 1961. 49. abstract
116349 (Radiokhim. analiz produktov deleniya. M-L., AN SSSR,
1960, 58-62)

TEXT: LaF<sub>3</sub> is twice precipitated from the solution to be analyzed which contains the carrier Zr and the 44% HF (3ml). The precipitate is separated, and the BaZrF<sub>6</sub> is precipitated from the solution by means of saturated Ba(NO<sub>3</sub>)<sub>2</sub> solution. The precipitate is centrifuged, washed with 0.5% HF and water, and dissolved by successive addition of 5 ml of 5%H<sub>3</sub>BO<sub>3</sub> solution, 10 ml of water, and 3 ml of concentrated HNO<sub>3</sub>. BaSO<sub>4</sub> is precipitated by means of 5% H<sub>2</sub>SO<sub>4</sub> from the solution heated to boiling.

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Separation and purification of ...

The solution with the precipitate is heated for 10 min, then cooled down, and the BaSO precipitate is separated out and washed out by means of The Zr(OH)4 is precipitated from the filtrate by a 30% KOH solution. The precipitate is centrifuged, washed by means of 1%  $\mathrm{KNO}_{3}$ solution, and dissolved in a minimum quantity of concentrated HCl. Zr(OH)4 is precipitated once more, and after its dissolution in concentrated HCl, the solution is liluted to 1 N concentration of HCl. The phenyl arsonate of Zr (I) is precipitated out of the solution obtained by adding 5 ml of the 10% solution of phenyl arsonic acid to 6 N HCl. The sediment (I) is separated out, washed out by means of 1 N HCl (containing 0.1% phenyl arsonic acid), and treated with 5 ml of 10% NaOH solution. The Zr(OH) precipitated is centrifuged, washed by means of 0.5% NaOH solution, dissolved in concentrated HCl, and the separation of (I) and its conversion Zr(OH) are repeated. The latter is dissolved in 6 N HNO3 by adding 3 ml The LaF3 precipitated is separated out and washed of 44% HF in 5 mg La.

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24817 8/06 361/000/011/009/040 B105/B203

Separation and purification of ...

out in 0.5% HF. Subsequently, the BaZrF<sub>6</sub> is twice precipitated, and treated as described above. The Zr(OH)<sub>4</sub> is dissolved in concentrated HCl, and the precipitation and treatment of (I) by conversion to Zr(OH)<sub>4</sub> is repeated. The latter is reprecipitated by means of the 10% NH<sub>4</sub>OH solution, centrifuged, annealed to ZrO<sub>2</sub> (1000-1100°C), and its activity measured. The chemical yield is 65-70%. The factor of purification from Nb is~3.0·10<sup>5</sup>, that from the total of fission fragments is~10<sup>7</sup>. The method described for precipitating BaZrF<sub>6</sub> is suited for determining the activity of Ba. In this case, the previous precipitation of LaF<sub>3</sub> is omitted to prevent a capture of radioactive Ba from the solution by LaF<sub>3</sub>. [Abstracter's note: Complete translation.]

Card 3/3

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110013-6 s/081/61/000/014/001/030 B106/B110 Dissolution of small amounts of plutonium dioxide Referativnyy zhurnal. Khimiya, nc. 14, 1961, 49, abstract 14, 1961, 49, abstract produktov deleniva. M.-T... Tolmachev, Yu. M. Referativnyy znurnal. Knimiya, nc. 14, 1961, 49, Abst analiz produltov deleniya, M.-L.,

146320. (Radiokhim. analiz produltov deleniya) TEXT: A method of dissolving small amounts (up to 500 mg) of FuC2 was AUTHOR: suggested. Quick dissolution of PuO2 in hot concentrated H2SO4 is the formation of a thin Durant in the formatin the formation of a thin Durant in the formation of a thin Duran TITLE: hindered by the formation of a thin Pu(SO<sub>4</sub>)2 layer which covers the PERIODICAL: hindered by the formation of white rules 4/2 leaded to the PuO2 sample grain surface. 3 ml of concentrated H<sub>2</sub>SO<sub>4</sub> is added to the PuO2 sample grain surface. 2 ml of cold distilled water is onickly intention of full generature. and 5-10 ml of cold distilled water is onickly intention. temperature, and 5-10 ml of cold distilled water is quickly injected. Card 1/2 PROVED FOR

Dissolution of small amounts of ...

S/081/61/000/014/001/030 B106/B110

After adding 1 ml of concentrated HNO<sub>3</sub>, the solution is evaporated on a boiling water bath. The dish is heated over a sand bath until the appearance of SO<sub>3</sub> vapors. After 10 min, the dish is removed from the sand bath, cooled, and the working cycle is repeated once more. A sample of 300 mg of PuO<sub>2</sub> dissolves completely in three working cycles during 3-4 hr if the PuO<sub>2</sub> was calcined below 500°C, and in 7-12 cycles if the PuO<sub>2</sub> was calcined at higher temperatures. [Abstracter's note: Complete translation.]

Card 2/2

23000 5/186/61/003/002/010/018 E111/E452

(6)

Solntsev. V.M. and Tolmachev, Yu.M.

TITLE:

AUTHORS:

The reaction of the solution of UzOR in sulphuric acid I. Kinetics of some reactions with powders

PERIODICAL: Radiokhimiya, 1961, Vol.3, No.2, pp.187-194

The present work was devoted to the examination of the The authors formal kinetics of reactions of powders in solution. consider first reactions whose rates -dm/dt do not depend on diffusion factors but only, for a given value of the rate constant K, on the phase contact area S. Here m is the mass of Assuming that all the particles of a powder material at time t. are identical in size and shape, the authors derive

$$\frac{\frac{1}{3}}{m_0^3 - m^3} = zt. \tag{5}$$

the mass when

$$z = k \frac{S_0}{3m_0^2}.$$

23000

S/186/61/003/002/010/018 E111/E452

The reaction of the solution ..

 $S_0$  being the surface when t=0. A form of this relation is used in studying reactions of solids with gases (Ref.2: R.L.Farrar, H.A.Smith, J.Phys.Chem., 59, 7, 763 (1955)). The authors do not consider the recent treatment of P.Barret, R.Hartoulari and R.Perret (Ref.1: C.R., 248, 20, 2862 (1959)) to be applicable. The authors used Eq.(5) in studying the solution of U308 in sulphuric acid at a temperature controlled with an accuracy of up to 0.1°C. The oxide was prepared by heating uranium peroxide at 800°C and U233 was added to give nominally 104 alpha-particles per min per mg of oxide. Samples of solution were taken periodically from the reaction vessel, the solids were removed by centrifuging and the alpha-activity of the residue on drying the solution on a platinum disc was then measured. Without mixing, the reaction was found to be of the second order with respect to the acid concentration C (in mols) for C = 4 - 10 mols. Fig.1 shows the relation between  $(m_0^{1/3} - m^{1/3})$  in mg as a function of time (minutes) for the solution of U308in 6 M H2SO4 at 60°C. The results indicate that the powder form is suitable for the investigation of solution For powders with mixed sizes a non-linear relation is tween m1/3 and t: this can be resolved into a kinetics. obtained between m Card 2/.5

-23000

S/186/61/003/002/010/018 E111/E452

The reaction of the solution ..

series of straight lines characteristic of the various fractions. This treatment gives for the rate constant k the equation

$$k = \frac{\sum 3z_n m_{0,n}^{\frac{2}{3}}}{q}.$$
 (11)

where q is the total surface of all fractions and n is the number of the fractions. The authors have used this treatment to analyse the published data on the solution of various samples of MgO in dilute sulphuric acid; these data do not conform to Eq.(5) because the samples consisted of mixtures of size fractions. Assuming that dye adsorption per unit surface of MgO in the work was independent of the way in which the oxide was produced and was the same for all samples, the authors obtain the following

$$jk = k' = \frac{\sum 3z_n m_{0, n}^{\frac{2}{3}}}{p}.$$
 (13)

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23000 S/186/61/003/002/010/018 E111/E452

The reaction of the solution ..

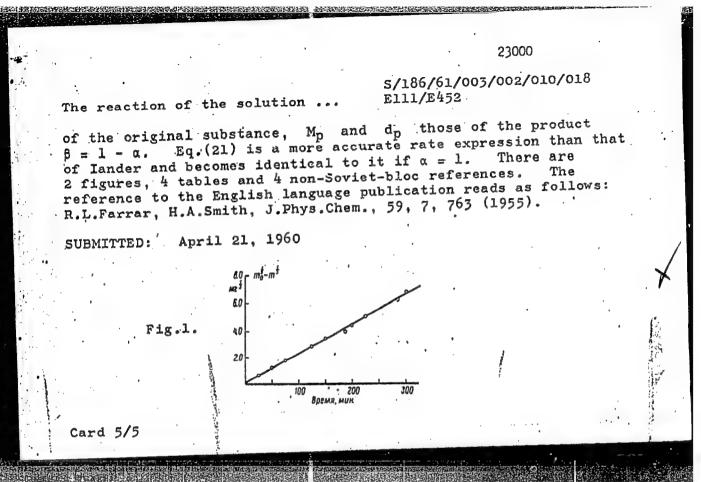
in which f is a proportionality factor and p is the percent absorption of dye. This can be used to determine rate constants for the solution of powders of mixed dispersion provided the total powder surface is known. The authors next consider reactions controlled by diffusion through a layer of reaction product. They assume, for simplicity, that the layer does not alter the particle volume and obtain the equation of W. Iander, (Z.anorg. u. allgem. Chem., 173, 1, 1 (1927). Next they assume that particle-volume changes in the reaction and obtain an equation

$$[(m_0 z + m\beta)^{1/s} - m^{1/s}]^2 = \frac{2kt}{f} = k_1 t.$$
 (21)

Hare

$$a = \frac{M_0 d_p}{d_0 M_p} \tag{20}$$

 $M_{\rm O}$  and  $d_{\rm O}$  being the molecular weight and density, respectively, Card 4/5



APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110013-6"

29820 s/020/61/140/006/017/030 B103/B101

21.4100

AUTHORS: Blinova, N. I., Solntsev, V. M., and Tolmachev, Yu. M.

TITLE:

Some particularities of the interaction between uranium mixed

oxide and acids

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 6, 1961, 1314-1316

TEXT: The authors studied the discrepancy between the initial and final  $UO_2^{2+}: U^{4+}$  ion ratios on dissolution of uranium mixed oxide in acids without oxidizers. This ratio is 2:1 on final solution, whereas in the initial stage, mainly U(VI) is dissolved, so that the ratio U(VI): U(IV) is much higher than 2:1. High-purity  $U_3O_8$  powder was dissolved in  $CO_2$  atmosphere at constant temperatures (25 or  $90^{\circ}$ C) in a) sulfuric, b) perchloric, and c) acetic acids. The solutions were analyzed after 100 min  $(H_2SO_4)$ , 10 min  $(HCIO_4)$ , and 40 min  $(CH_3COOH)$ . U(IV) was determined in the solution by titrating with KMnO<sub>4</sub>, the total quantity of U by

Card 1/4

Card 2/4

29820 S/020/61/140/006/017/030 R103/B101

Some particularities of the interaction ... B103/B101 precipitation as ammonium diuranate and igniting to U308. Ratios of 76: 1 in a), 60:1 in b), and 300: 1 in c) were found for the beginning solution of  $U_3^{0}$ . After 2 hr, the ratio U(VI): U(IV) in the solution became 1:1 and remained constant, until dissolving was completed. A precipitation is deposited in the final stage of dissolving, in which the ratio varies between 2:1 and 1:1. Once the ratio of 1:1 is reached in the solution as well as in the precipitation, the composition of the precipitation does not change anymore. This is a dark, slightly violet colored powder which becomes grey-green on drying in air, the ratio U(VI): U(IV) approximating 2:1. A ratio of 1:1 is maintained for 48 hr in the powder, when the water is saturated with CO2. When U308 is dissolved in HNO3, a stable ratio of 2:1 is conserved in the powder during the entire time of dissolving. It was found that the uranium atoms in U308 do not play the same role. It is difficult to find a different explanation for the varying U(VI): U(IV) ratios in the solution and in the precipitation Vduring the reaction of  ${\rm U_3O_8}$  with acids. It is presumed that  ${\rm U_2O_5}$  which is

29820 s/020/61/140/006/017/030 Some particularities of the interaction... B103/B101

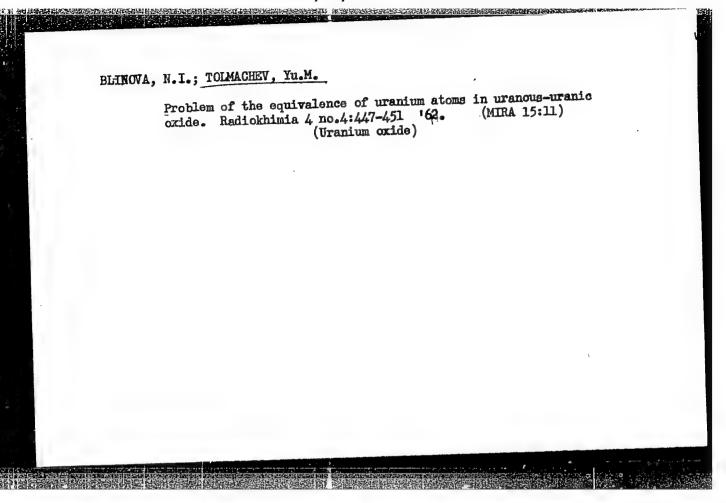
ASSOCIATION: Radiyevyy institut im. V. G. Khlopina Akademii nauk SSSR (Radium Institute imeni V. G. Khlopin AS USSR)

PRESENTED: May 24, 1961, by A. A. Grinberg, Academician

SUBMITTED: May 18, 1961

Card 4/4

CIA-RDP86-00513R001756110013-6" APPROVED FOR RELEASE: 07/16/2001



IJP(c) ES/JD/WW/JG ENT(m)/ENP(t)/ETI SOURCE CODE: UR/0186/65/007/006/0722/0725 <u> 36063-66</u> ACC NR AP6014723

Illinskaya, T. A.; Kuzin, V. I.; Tolmachev, Yu. M. AUTHOR:

ORG: none

Absorption spectra of uranium oxides. TITLE:

I. Infrared absorption spectrum of ursnium pentoxide

SOURCE: Radiokhimiya, v. 7, no. 6, 1965, 722-725

TOPIC TAGS: absorption spectrum, uranium compound, 12 absorption

ABSTRACT: The article describes the results of a comparative study of the infrared absorption spectra of U308, of U205 obtained from U308 by the method of solution in sulfuric acid, and of a substance obtained by the method of solution in sulfuric scid, and of a substance obtained by the hydrogen reduction of U<sub>3</sub>0<sub>8</sub>, which corresponded to the composition U<sub>2</sub>0<sub>5</sub>. The starting U<sub>3</sub>0<sub>8</sub> was obtained by calcining uranium peroxide, U<sub>2</sub>0<sub>5</sub> at 900°C for 7 hours. In some experiments, U<sub>3</sub>0<sub>8</sub> prepared from ammonium diuranate was used. The ratio of the amounts of six- and four-valent uranium in the U<sub>3</sub>0<sub>8</sub> was determined by titration and was found to be equal to 2.00 ± 0.02. The experimental results are shown in a series of figures and a large table. The absorption spectra for uranium pentoxide were obtained in the region 4800-400 cm. The spectrum for

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UDG: 66.085.1:541.45:546.791

L 36063-66

ACC NR AP6014723

U\_2O\_r prepared by dissolving U\_3O\_8 in sulfuric acid differed from the spectra of U\_3O\_8 and of U\_2O\_r obtained by hydrogen reduction, by the presence of an absorption bend with maxima at 916 and 670 cm<sup>-1</sup>. The presence of chains of stoms of the form U--0--U--0... was established in the lattices of uranium pentoxide, as well as in U\_3O\_8 and <-UO\_3. The region of the stable state of U\_2O\_8 obtained by dissolving U\_3O\_8 in sulfuric acid lies below 400°C. Orig. art. has: 1 figure and 1 table.

SUB CODE: 07, 20/ SUBM DATE: 09Nov64/ ORIG REF: 003/ OTH REF: 002

IL'INSKAYA, T.A.; KUZIN, V.I.; TOLMACHEV, Yu.M.

Absorption spectra of uranium oxides. Part 1: Infrared absorption spectrum of U205. Radiokhimiia 7 no.6:722-725 165.

(MIRA 19:1)

TOLMACHEV, Z 1

ACCESSION NR: AP3008085

\$/0089/63/015/003/0266/0267

AUTHOR: none

TITLE: Seminar on refractory metals, compounds, and alloys [Kiev, April 1963]

SOURCE: Atomnaya energiya, v. 15, no. 3, 1963, 266-267

TOPIC TAGS: refractory metal, refractory compound, refractory alloy, electron structure, crystal structure, electron beam welding, physical property, vanadium, niobium, molybdenum, single crystal growth, tungsten, rhenium silicide, nonmagnetic zirconium base alloy, tantalum, nonmetallic element diffusion, heat conductivity, electric conductivity, thermal diffusivity

ABSTRACT: In April 1963, a seminar on the extraction, physical properties, and electron structure of refractory metals was held in Kiev under the sponsorship of the Institute of Powder Netallurgy and Special Alloys, Academy of Sciences, Ukrainian SSR. Approximately 300 representatives of scientific research institutes attended the

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ACCESSION NR: AP3008085

seminar. One hundred papers were presented. Among them were the following:

- I. I. Kornilov. The interaction between refractory compounds involving the formation of binary, ternary, and multicomponent solid solutions.
- G. V. Samsonov.' Classification of hydrides, nitrides, and other compounds of nonmetals with elements of the periodic table.
- V. N. Yeremenko, Z. I. Tolmachev. The relationship between some properties and the electron structure of transition metals and their interstitial phases.
- G. V. Samsonov. The nature of the catalytic properties of transition metals.
- I. A. Kedrinskiy, A. I. Avgustinnik, Ye. A. Berkman. Experimental data on the catalytic activity of refractory metal electrodes in electrochemical reactions.

Card 2/11

GRIN'KO, Rostislav Iosifovich; ROZOVSKIY, Izrail' L'vovich; TOLMACHEVA,
A.B., red.; PECHKOVSKAYA, O.M., red.izd-va; RAKHLINA, N.P.,
tekhn. red.

A CONTRACTOR OF THE CONTRACTOR

[Theory and practice of major straightening work on the Dnieper] Teoriia i opyt kapital'nykh vypravitel'nykh rabot na Dnepre. Pod red.A.B. Tolmacheva. Kiev, Izd-vo Akad.nauk USSR, 1962. 126 p. (MIRA 16:3)

(Dnieper River--Hydraulic engineering)

# TOLMACHEV, A.I.

Interaction of pyrylium salts with compounds containing active methyl or methylene groups. Part 1. Zhur.ob.khim. 33 no.6: 1864-1870 Je '63. (MIRA 16:7)

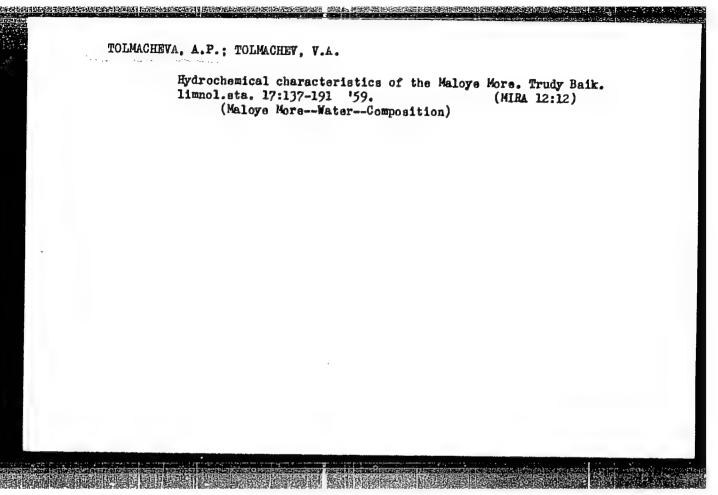
1. Institut organicheskoy khimii AN UkrSSR.
(Pyrylium compounds) (Nitrogen compounds)

TOLMACHEVA, A.P.; TOLMACHEV, V.A.

Hydrochemical characteristics of tributaries feeding the Maloye More, Trudy Baik, limnol.sta. 17:192-204 159.

(Sarma River--Water--Composition)

(Maloye More region--Water--Composition)

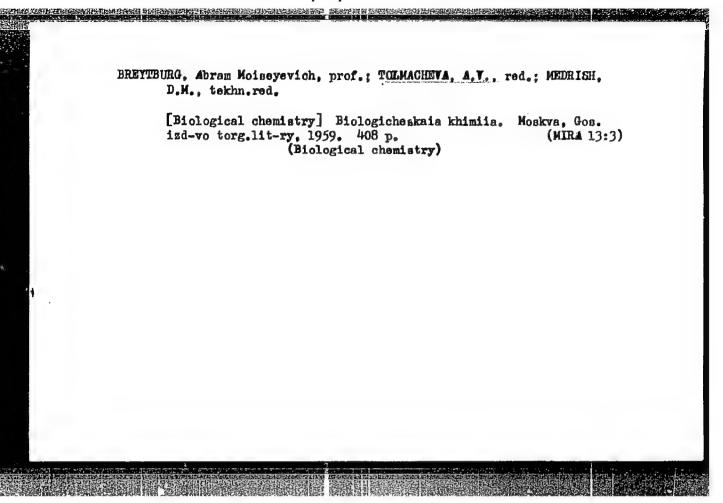


AMISOV, Aleksandr Andreyevich; DUNDUKOV, Grigoriy Stepanovich; IL'IN, Nikolay Ivanovich, doktor ekon. nauk, prof.; TOLMACHEVA, A.V., med.; GROMOV, A.S., tekhn. red.; EL'KINA, E.M., tekhn. red.

[Accounting in public dining]Bukhgalterskii uchet v obshchestvennom pitanii. 2., perer. izd. Pod red. N.I. Il'ina. Moskva, Gostorgizdat, 1962. 269 p.

(MIRA 15:10)

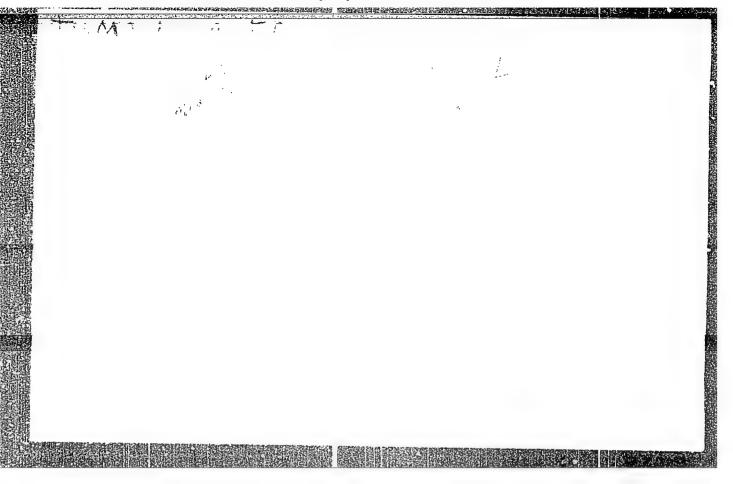
(Restaurants, lunchrooms, etc.--Accounting)



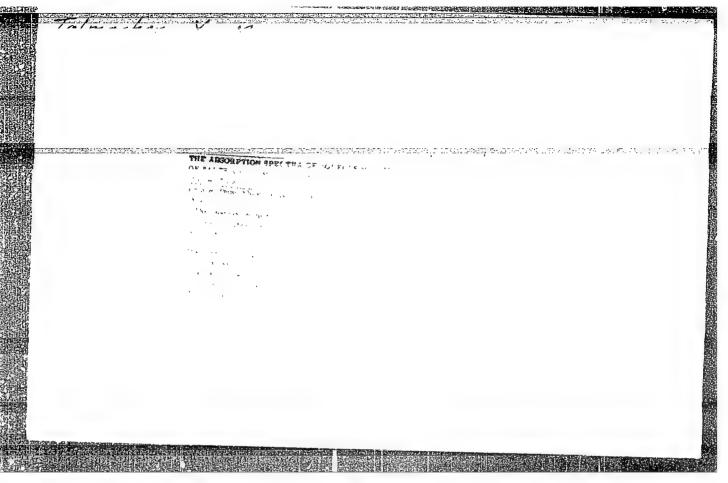
VASIL'YEV, Stepan Sergeyevich; TOLMACHEVA, A.V., red.; VOLKOVA, V.G., tekhn. red.

[Economics of public food service] Ekonomika obshchestvennogo pitanila. Moskva, Gos.izd-vo torg. lit-ry, 1963. 430 p. (MIRA 16:9)

(Food industry) (Restaurants, lunchrooms, etc.)



APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110013-6"



PETRAKOVA, K.V.; TOLMACHEVA, A.A.; FRIDENSHTEYN, A.Ya.

Bone formation following marrow transplantation in diffusion chambers. Biul. eksp. biol. i med. 56 no.12:87-91 D 162.

(MTRA 17:11)

1. Otdel radiatsionnoy mikrobiologii i immunologii (zav. M.Ya. Tumanyan) Instituta epidemiologii i mikrobiologii imeni Gamalei (dir. - prof. P.A. Vershilova) AMN SSSR, Moskva.

VOTINTSEV, Konstantin Konstantinovich; GLAZUNOV, Ivan Vladimirovich; TOLMACHEVA, Anna Petrovna; GALAZIV, G.I., otv. red.

[Geochemistry of the rivers of the Lake Baikal basin.] Gidrokhimila rek basseina ozera Baikal. Meskva, Nauka, 1965. 494 p. (Akademila nauk SSSR. Sibirskoe otdelenie. Limnologicheskii institut. Trudy, vol. 8(28)).

(MIRA 18:7)

1. Nauchnyye sotrudniki Baykaliskoy limnologicheskoy stantsii AN SSSR (for Tolmacheva, Glazunov).

BCRISOVA, Ye.A.; TOIMACHEVA, A.V., redaktor; ROSLOV, G.I., tekhnicheskiy redaktor

[Technical and chemical control in public eating enterprises; textbook] Tekhno-khimicheskii kontrol' v predpriiatiiakh obshchestvennogo pitaniia; uchebnoe posobie dlia tekhnikumov.

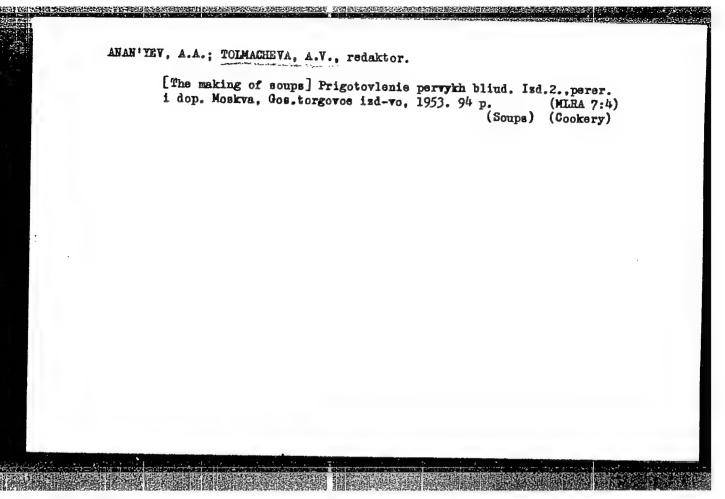
Moskva, Gos. izd-vo torgovoi lit-ry, 1955. lll p. (MERA 9:2)

(Food--Analysis)

BREYTBURG, Abram Moiseyevich; TOIMACHEVA, A.V., red.; MEDRISH, D.M., tekhn.red.

[Efficient nutrition] Ratsional'noe pitanie. Moskva, Gos.izd-vo torgovoi lit-ry, 1957. 150 p. (MIRA 11:1)

(Nutrition)



Luball-of exallyfree of

ACC NR: AP6018928

SOURCE CODE: UR/0203/66/006/003/0600/0602

AUTHOR: Belikovich, V. V.; Benediktov, Ye. A.; Tolmacheva, A. V.

44 13

ORG: Institute of Radio Physics, Gor'kiy State University (Radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete)

TITLE: A possible interpretation of the frequency dependence of anomalous absorption of cosmic radiation

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 600-602

TOPIC TAGS: cosmic radiation, radio wave absorption, magnetic storm, ionospheric absorption

ABSTRACT: The authors have proposed their own explanation, based on a nonuniform or heterogeneous ionization region in the horizontal plane, of the test results for the anomalous absorption of cosmic radiation in the ionosphere on several fixed frequencies observed during three world-wide magnetic disturbances, cited in a previous paper (Ye. A. Benediktov, Yu. S. Korobkov, A. V. Tolmacheva. Geomagn. i aeronomiya, 1965, 5, no. 4, 698). On the assumption that the radiation is uniformly distributed over the sky and by substituting for the

Card 1/2

UDC: 550.388.2

L 05h21-67

ACC NR: AP6018928

real radiation pattern of the antenna a certain effective pattern described only by the solid angle  $\Omega_0$ , formulas are obtained for the recorded level of cosmic radiation and for the ratio of the quantity of absorption as measured radio-astronomically to the "true" quantity. It is shown that the problem of determining the frequency dependence of anomalous radio wave absorption in the ionosphere becomes vastly more complex, unless additional information is available regarding the degree of ionization homogeneity in the horizontal direction. Using the formula obtained, an attempt is made to define the heterogeneous structure of the ionization region through a computation of the frequency function  $\Gamma(\omega)$  on the basis of data from the three magnetic storms. The examples given show that the presence of a nonuniformly structured anomalous ionization region can significantly distort radio-astronomically derived information regarding the altitudes at which radio waves passing through the ionosphere are subject to maximum absorption. Orig. art. has: 2 figures and 3 formulas.

SUB CODE: 04/ SUBM DATE: 280ct65/ ORIG REF: 002/ OTH REF: 002

Card 2/2 fll

L 1713-66 EWT(1)/FCC/EWA(h) GW

ACCESSION NR: AP5020999

UR/0203/65/005/004/0698/0704 550.388.3:550.385.2

AUTHOR: Benediktov, Ye. A.; Korobkov, Yu. S.; Tolmacheva, A. V.

Ġ'.

TITLE: Anomalous ionization of the lower ionosphere over temperate latitudes during global geomagnetic storms

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 4, 1965, 698-704

TOPIC TAGS: ionospheric absorption, ionospheric inhomogeneity, magnetic storm, geomagnetic disturbance radio wave absorption

ABSTRACT: Anomalous ionization of the lower ionosphere, causing additional absorption of radio waves, is observed during global geomagnetic storms over temperate geographic latitudes. This paper reports on measurements of flareups in radio wave ionospheric absorption made at Zimenki near Gorky ( $\phi = 56^{\circ}09^{\circ}$ ,  $\phi = 50^{\circ}21^{\circ}$ ) during global geomagnetic storms on July 15, 1959, April 1, 1960, and October 28, 1961. The first two storms were registered at 25 and 18.6 Mc, and the last one was tracked at 9, 13, and 25 Mc by means of synphase multi-dipole antenna systems. The following findings were made. 1) Anomalous absorptions appeared in the form of consecutive absorption bursts lasting from several minutes to several dozen minutes.

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L 1713-66

ACCESSION NR: AP5020999

2) They appeared regularly at the end of the first phase of the magnetic storm and continued to appear while the storm developed. 3) In the case of the last two storms, some correlation apparently exists between the geomagnetic field variations and the absorption occurrences. 4) During the same two storms, short (5 min) fadeouts of cosmic radiation were observed over periods of several hours prior to the appearance of anomalous absorptions. These fadeouts were not accompanied by solar chromospheric flares. 5) The ratio of absorption intensities at two frequencies was smaller than the inverse of the ratio of the squares of the respective frequencies. 6) Numerous bursts of solar radiation at 18.6 and 25 Mc were registered on July 25, 1959, by the side lobes of the antenna. 7) The magnitude of the anomalous 13-Mc cosmic radio wave absorption 45° over the horizon did not exceed 0.2 to 0.3 db while the zenith absorption at the same frequency reached 2-3db. 8) Changes in the 27.8-Mc cosmic radio wave intensity observed by IZMIRAN at Krasnaya Pakhra on July 15, 1959, led the absorption bursts at Zimenki by 8-12 minutes. 9) At the vertical probing station, the reflected signal was missing during the periods of abnormal absorption. Analysis of fonospheric cosmic radiation and absorption results shows that anomalous ionization occurs at altitudes of approximately 50 km and the electron concentration attains 103 electrons/cm3. The authors discuss and give an estimate of the primary electron flux needed for the generation of the observed level of anomalous ionization. "The authors

Cord 2/3

L 1713-66 ACCESSION NR: AP5020999				
thank A. A. Beloborodovs in has: 6 formulas, 1 figure	e, and 4 tables. Eskiy institut 1	ori Gor <sup>e</sup> kovakom e		. [08]
(Radio Physics Institute s SUBMITTED: 24Aug64 NO REF SOV: 006	ENCL:	00	SUB	ODE: ES.
	-			21.233.7016
	4.			

APEMENER, Solomon Mikhaylovich, kandidat meditsinskikh nauk; KROTKOV, P.G., professor, redaktor; MICHKINA,N.N., redaktor; TOLMACHEYA, A.V., redaktor; SUDAK,D.M., tekhnicheskiy redaktor

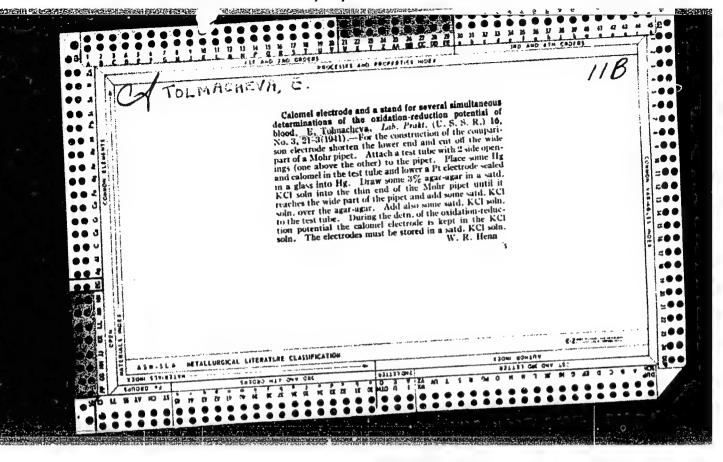
[Hygiene in public catering with fundamentals in anatomy and physiology] Gigiena obshchestvennogo pitaniia (sosnovami anatomii i fiziologii). Izd. 2-e, dop. i perer. Moskva, Gos.izd-vo torgovoi lit-ry, 1955. 280 p.

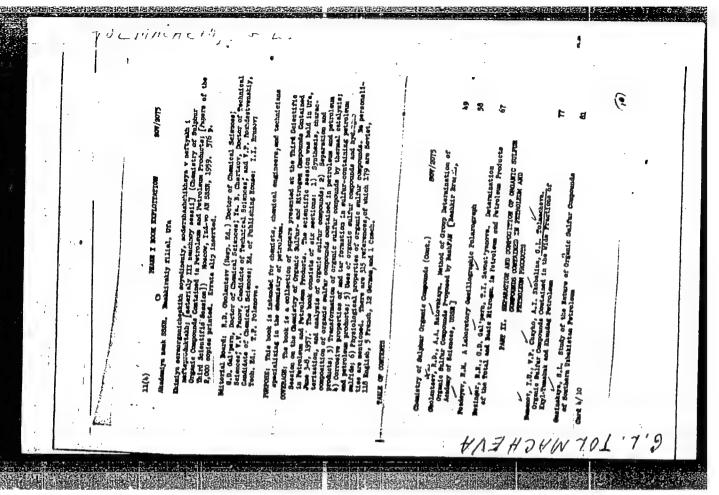
(FOOD HANDLING) (ANATOMY) (PHYSIOLOGY)

(FOOD HANDLING) (ANATOMY) (PHYSIOLOGY)

TOIMACHEVA, A. Ye. (Rostov-na-Donu)

Development of the production of kumiss. Vop.pit. 22 no.1:
3-8 Ja-F'63 (MIRA 16:11)





NUMANOV, I.U.; SKOEELINA, A.I.; TOIMACHEVA, G.L.; YAKUBOV, Kh.M.

Sulfur organic compounds of petroleums from the southern part of Central Asia. Report No.1: Sulfur organic compounds of petroleums from the Kzyl-Tumshuk and Khaudag deposits. Izv. Otd. geol.-khim. i tekh. nauk AN Tadzh. SSR no.1:69-78 '59.

(MIRA 14:8)

1. Institut khimii AN Tadzhikskoy SSR.

(Kzyl-Tumshuk-Petroleum-Analysis)

(Khaudag-Petroleum-Analysis)

(Sulfur organic compounds)

ACC NRI ARCO22460

SOURCE CODE: UR/0169/66/000/003/B043/B043

AUTHOR: Zaslavstaya, F. V.; Navrotskaya, V. S.; Tolmacheva, I. A.; Medvedev, G.A.

TITLE: Aerological patterns of foehns as observed in the Rion Valley OGMI expedition during September-October of 1962

SOURCE: Ref. zh. Geofiz, Abs. 3B278

REF SOURCE: Meteorol., klimatol i gidrol. Mezhved nauchn., vyp. 1, 1965, 17-22

TOPIC TAGS: weather forecasting, weather station, meteorologic observation

TRANSLATION: An account is given of the results of investigation of the wind and temperature patterns in the atmosphere, which was conducted by members of this expedition. The purpose of the expedition was to investigate the foehn winds on the Surah Pass which rises to 1242 m above sea leval near the Mta-Sabueti station. The investigation lasted from September 19 to October 12. Supplementary data were obtained from Kutaisi Tbilissi and other points in the TransCaucasus. At Kutaisi the easterly wind, having a velocity of 5 m/sec, lowers the relative humidity to 50% in some 80% of the cases. Such wind could be classed as foehn. However, the foehn characteristics are seldom observed and its velocity is usually less than 5 m/sec. The relationship between the temperature and the air humidity on one hand and wind velocity on the other was found to be complex. As the wind velocity increases, the relative humidity decreases and

UDC: 551.555.3(479.2)

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the temperature of the air rises. The foehn effect is sharper at nighttime, when the directions of the foehn and the mountain wind may coincide. In the daytime, a valley wind might develop in the Rio Valley in a direction opposite to that of the foehn. As a result, the velocity of wind from the east is increased and that of the foehn, weakened. On the days of the foehn wind over the Surah range, an inversion or an isotherm may develop. The wind from the east may be felt as far away as 2 km. Occasionally at the Kutaisi Pass, the winds from the east were stronger than at the Surah Pass. N. Davydov.

SUB CODE: 04

Card 2/2

TAYTS, N.Yu., doktor tekhn. nauk; KLEYNER, M.K., inzh.; ZAVALISHIN, Ye.K., inzh.; KALUGIN, Ya.P., inzh.; FALILEYEV, I.L., inzh.; KAGAN, N.I., inzh. [deceased]; Prinimali uchastiye: POPOV, V.N. inzh.; CHUYKOV, A.A., inzh.; MINUKHINA, L.N., inzh.; KHATSAREVICH, V.R., inzh.; TOLMACHEVA, I.A., inzh.; BAZHENOVA, V.N., inzh.

是我们的现在分词,我们就是我们的人,我们们就是我们的人,我们就是这个人,我们就会看到这个人,我们也没有的人,我们就会这些人,我们就会这些人,我们就会这种人,我们 第一天,我们就是我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们就是我们就是我们就是我们

Technological and thermodynamic characteristics of strip heating for the continuous furnace welding of pipes.

Stal'24 no.8:746-750 Ag '64. (MIRA 17:9)

l. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut, Ural'skiy nauchno-issledovatel'skiy trubnyy institut i Chelyabinskiy truboprokatnyy zavod.

SOKOLOV, V.N.; TOLMACHEVA, L.I.

Determining the extent of mechanization in the liqueur and vodka industry. Spirt.prom. 28 no.2:30-33 '62. (MIRA 15:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut spirtovoy promyshlennosti.

(Liquor industry)